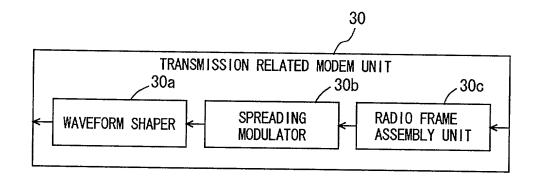


. Б.

F I G. 2



#### F I G. 3

PERIOD INDEX :0 
$$[H_0] = [0]$$
PERIOD INDEX :1 
$$[H_1] = \begin{bmatrix} H_0 & H_0 \\ H_0 & \overline{H_0} \end{bmatrix} = \begin{bmatrix} 0 & 0 \\ 0 & 1 \end{bmatrix}$$
PERIOD INDEX :2 
$$[H_2] = \begin{bmatrix} H_1 & H_1 \\ H_1 & \overline{H_1} \end{bmatrix} = \begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 1 \\ 0 & 1 & 1 & 0 \end{bmatrix}$$
PERIOD INDEX :k 
$$[H_k] = \begin{bmatrix} H_{k-1} & H_{k-1} \\ H_{k-1} & \overline{H_{k-1}} \end{bmatrix}$$

F I G. 4

		LOCATION NUMBER (C)															
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
	2	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1
L	3	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0
	4	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1
	5	0	1	0	1	1	0	1	0	0	1	0	1	1	0	1	0
	6	0	0	1	1	1	1	0	0	0	0	1	1	1	1	0	0
	7	0	1	1	0	1	0	0	1	0	1	1	0	1	0	0	1
	8	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	9	0	1	0	1	0	1	0	1	1	0	1	0	1	0	1	0
	10	0	0	1	1	0	0	1	1	1	1	0	0	1	1	0	0
	11	0	1	1	0	0	1	1	0	1	0	0	1	1	0	0	1
	12	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0
L	13	0	1	0	1	1	0	1	0	1	0	1	0	0	1	0	1
	14	0	0	1	1	1	1	0	0	1	1	0	0	0	0	1	1
Ŀ	15	0	1	1	0	1	0	0	1	1	0	0	1	0	1	1	0

SEQUENCE NUMBER (B)

F I G. 5

LEAST SIGNIFICANT BIT OF LOCATION NUMBER 0 0 0 LEAST SIGNIFICANT BIT OF SEQUENCE NUMBER (PERIOD INDEX k = ORTHOGONAL CODE OF 1) ELEMENT CODE  $\left[ \begin{array}{c} H_1 \end{array} \right]$ 

#### FIG. 6

## VALUES OF LOCATION NUMBER EXCLUDING LEAST SIGNIFICANT BIT

VALUES OF SEQUENCE NUMBER EXCLUDING LEAST SIGNIFICANT BIT

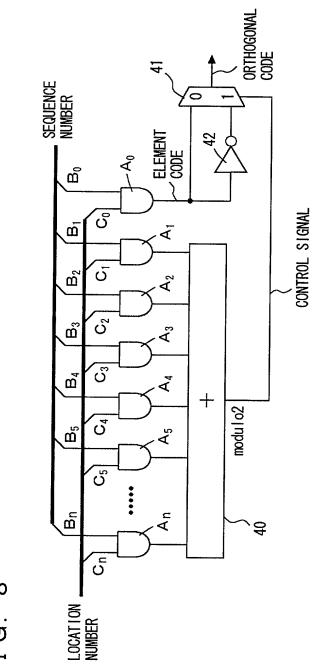
	000	001	010	011	100	101	110	111
000	Η <sub>1</sub>	Η <sub>1</sub>	Ηı	H <sub>1</sub>	H₁	Ηı	Ηı	Ηı
	1							$\overline{H_1}$
010	Η <sub>1</sub>	Н₁	$\overline{H_1}$	$\overline{H_1}$	Η <sub>1</sub>	Η <sub>1</sub>	$\overline{H_1}$	H <sub>1</sub>
011	H₁	H <sub>1</sub>	H₁	H₁	H₁	$\overline{H_1}$	$\overline{H_1}$	Ηı
100	Ηı	Ηı	Η <sub>1</sub>	H <sub>1</sub>	$\overline{H_1}$	$\overline{H_1}$	$\overline{H_1}$	$\overline{H_1}$
101	Η <sub>1</sub>	H₁	Ηı	$\overline{H_1}$	H <sub>1</sub>	Ηı	Η <sub>1</sub>	H <sub>1</sub>
110	Ηı	Η <sub>1</sub>	$\overline{H_1}$	$\overline{H_1}$	$\overline{H_1}$	$\overline{H_1}$	Ηι	H <sub>1</sub>
111	H <sub>1</sub>	H <sub>1</sub>	H <sub>1</sub>	Η <sub>1</sub>	$\overline{H_1}$	Ηı	H <sub>1</sub>	$\overline{H_1}$

F I G. 7

# VALUES OF LOCATION NUMBER EXCLUDING LEAST SIGNIFICANT BIT

VALUES OF SEQUENCE NUMBER EXCLUDING LEAST SIGNIFICANT BIT

	000	001	010	011	100	101	110	111
000	0	0	0	0	0	0	0	0
001	0	1	0	1	0	1	0	1
010	0	0	1	1	0	0	1	1
011	0	1	1	2	0	1	1	2
100	0	0	0	0	1	1	1	1
101	0	1	0	1	1	2	1	2
110	0	0	1	1	1	1	2	2
111	0	1	1	2	1	2	2	3



F I G. 8

ORTHOGONAL CODE SEQUENCE NUMBER ELEMENT ~ CODE യ് င်လိ CONTROL SIGNAL  $\bar{\mathbf{u}}_{1}$ ۲  $CS_1$ ä  $\mathsf{A}_2$ (so) മ് ٩ CSS B<sub>4</sub> ď + modulo2 CSJ , E  $\mathsf{A}_{\mathsf{F}}$ LOCATION NUMBER 43  $CS_5$ : Αn a B 9 LOCATION NUMBER MODIFY CIRCUIT CS<sub>n</sub> PERIOD INDEX

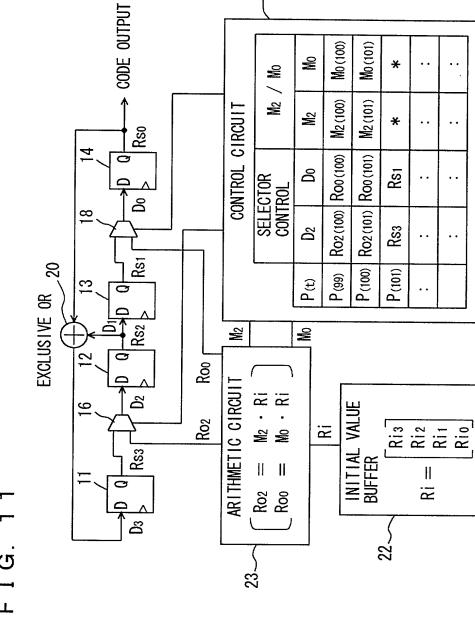
FIG. 9

### FIG. 10

SEQUENCE NUMBER (B)

### LOCATION NUMBER (C)

							,									
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
2	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1
3	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0
4	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1
5	0	0	1	1	0	0	1	1	1	1	0	0	1	1	0	0
6	0	0	1	1	1	1	0	0	0	0	1	1	1	1	0	0
7	0	0	1	1	1	1	0	0	1	1	0	0	0	0	1	1
8	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
9	0	1	0	1	0	1	0	1	1	0	1	0	1	0	1	0
10	0	1	0	1	1	0	1	0	0	1	0	1	1	0	1	0
11	0	1	0	1	1	0	1	0	1	0	1	0	0	1	0	1
12	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0
13	0	1	1	0	0	1	1	0	1	0	0	1	1	0	0	1
14	0	1	1	0	1	0	0	1	0	1	1	0	1	0	0	1
15	0	1	1	0	1	0	0	1	1	0	0	1	0	1	1	0



24

Mo(101)

\*

Mo(100)

£

FIG. 11

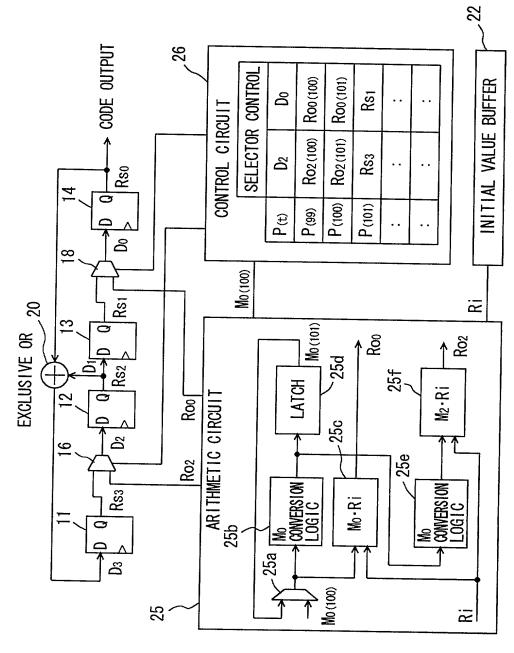
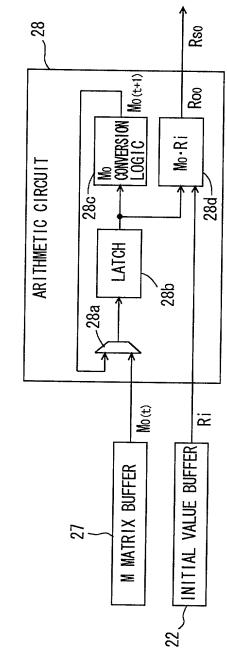


FIG. 12

FIG. 13



### FIG. 14 PRIOR ART

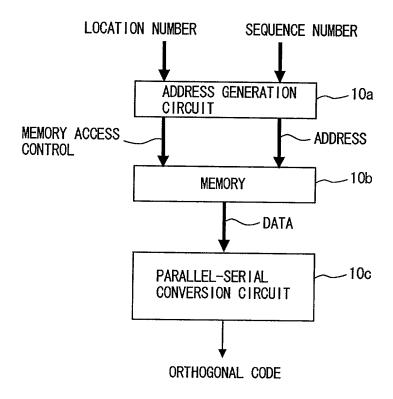


FIG. 15 PRIOR ART

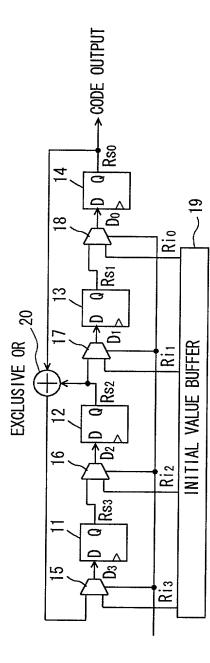


FIG. 16 PRIOR ART

